

CLAIMS

1. A flexible garment system which is capable of emitting heat when an electrical current is applied, comprising an electrically insulating fibre base structure with an electrically and thermally conductive area and at least two power supply lines, all of which are incorporated during the textile manufacture stage.

2. A garment as described in claim 1 where the electrically insulating base structure is woven, knitted or non-woven fabric made of natural, regenerated or synthetic fibres.

3. A garment as described in claim 1 where the electrically and thermally conductive area may be a woven, knitted or non-woven fabric made of one of the following fibres:

- a. Metal fibres
- b. Carbon fibres
- c. Metallised polymer fibres
- d. Conductive polymer coated fibres
- e. Conductive polymer fibres
- f. or from a combination of these materials.

4. A garment as described in claim 1 where the electrically and thermally conductive area is made of fibres as described in claim 3 blended with fibres as described in claim 2.

5. A garment as described in any proceeding claim that is powered by connection to a self-contained power supply.

6. A garment according to any preceding claim which has a further base structure with a thermally conductive area applied to thus form a more advanced garment system.